

Zhan Yu

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EDUCATION

University of Wisconsin-Madison

09/2019 – 05/2023

Bachelor of Science in **Computer Science**

Madison, WI

- **GPA:** 3.85/4.0
- **Core Course:** Programming III, Artificial Intelligence, Operating System, Data Structure and Algorithm, Data Programming, Data Model, Linear Algebra

EXPERIENCE

SenseTime

05/2021 – 08/2021

Software Engineer Intern

- Expanded backend modules on tracking more than 500 daily Enterprise Didi (Uber-like) orders to have better management, based on **SSM** framework (**Spring, Spring MVC, MyBatis**).
- Optimized employee information module on Wechat-enterprise by building **RESTful** APIs
- Built responsive interfaces for user authentication and visitor/vehicle appointment etc. by **React** with **Redux** to better manage the data flow and state sharing during development.
- Simplified user authentication process by using **Passport** to integrate local authentication
- Ensured the security of identity verification during user login by using the verification method from Alibaba cloud service and **Redis** cache.
- Developed major functionalities on backend including reservation of parking space, parking space release, visitor appointment update, etc. and managed user data by **SSM** framework (**Spring, Spring MVC, MyBatis**).
- Ensured the stability of the system by using **Jest** and **Enzyme** to do unit test on React components and **Postman** with **Newman** to do interface test during website development.

PROJECTS

Programmer Communication Platform

01/2021 – 05/2021

- Integrated **SpringEmail** and **Kaptcha** to configure verification code during login and send activation email during register, ensuring the security and effectiveness of each account.
- Used **Ajax** and **Trie** on post publishing to asynchronous process requests and filter sensitive words.
- Integrated **Kafka** with **MQ** which has great performance on functionalities with high access frequency, such as giving likes and commenting, to improve the response speed of the platform.
- Built post search module by **Elasticsearch** to keyword searching on posts of the whole platform
- Improved CPU throughput and read/write efficiency by local cache **caffeine** and **Redis**.

Todo Management Application

08/2021 — 09/2021

- Utilized **React** and **Java Spring Boot** to support create, update and delete Todo item functionalities.
- Configured **Basic Authentication** RESTful service and **JWT** in Spring Security to realize user login/logout.
- Combined Java, **JPA** and **Hibernate** for data storage and modification with **REST** API.

Communication Platform for Epidemic

10/2020 – 12/2020

- Implemented responsive layout and user interaction by **Bootstrap 5** and **jQueryMySQL**
- Utilized **NodeJS** and **Express** to build RESTful routing on the server side to handle user requests
- Managed and stored appointment/user data by utilizing **Mongoose** and **MongoDB Atlas** database.

Web crawler

08/2020 – 10/2020

- Utilized **beautiful soup** to crawl more than 60 news titles, profiles, labels and other information on the BBC News Home page, and classify them into **MySQL** database
- Utilized **pandas**, **matplotlib** to monitor news features per month and analyze top 5 hot topics

SKILLS

Programming Language : Java, Python, C, SQL, JavaScript, HTML/CSS

Frameworks : Spring Boot, MyBatis, Node.js, Express.js, React, jQuery, Bootstrap

Tools : MySQL, MongoDB, Redis, JUnit 4, Git, Linux, Postman